



A.D. 1862, *28th AUGUST.* N^o 2386.

S P E C I F I C A T I O N

OF

MARC ANTOINE FRANCOIS MENNONS.
5

SMOKE-CONSUMING FURNACES.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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1863.



A.D. 1862, 28th AUGUST. N° 2386.

Smoke-consuming Furnaces.

LETTERS PATENT to Marc Antoine François Mennons, of the British and Foreign Patent Offices, 24, Rue du Mont Thabor, Paris, in the Empire of France, for the Invention of "IMPROVEMENTS IN SMOKE-CONSUMING FURNACES."—A communication from Bernard Palazot, residing at Bordeaux (Dept. de la Gironde) in France.

Sealed the 16th December 1862, and dated the 28th August 1862.

COMPLETE SPECIFICATION filed by the said Marc Antoine François Mennons at the Office of the Commissioners of Patents, with his Petition and Declaration on the 28th August 1862, pursuant to the 9th Section of the Patent Law Amendment Act, 1852.

5 **TO ALL TO WHOM THESE PRESENTS SHALL COME**, I, MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 24, Rue du Mont Thabor, Paris, in the Empire of France, send greeting.

WHEREAS I am in possession of an Invention for "IMPROVEMENTS IN SMOKE-CONSUMING FURNACES," (communicated to me by Bernard Palazot, a person
10 resident at Bordeaux (Dep^t. de la Gironde) in France), and have petitioned Her Majesty to grant unto me, my executors, administrators, and assigns, Her Royal Letters Patent for the same, and made solemn declaration that it is a communication.

NOW KNOW YE that I, the said Marc Antoine François Mennons, do
15 hereby declare that the following Complete Specification under my hand and

Mennons' Improvements in Smoke-consuming Furnaces.

seal fully describes and ascertains the nature of the Invention, and the manner in which the same is to be performed, reference being had to the Figures of the accompanying Drawing, and to the letters marked thereon, that is to say :—

This Invention consists in an improved arrangement of certain parts of 5 steam boiler and other furnaces, by means of which perfect combustion and complete fumivory are obtained, accompanied in many cases by a considerable economy of fuel.

The accompanying Drawing represents in cross and longitudinal section, a boiler furnace comprising the present improvements. 10

A is a slit aperture formed accross the furnace in front of the grate, and giving passage to a current of air, the volume and velocity of which are regulated by the register B; C is a vaulting of refractory clay, which in certain cases may be replaced by a simple plate. The form of this vault or plate may be modified so long as its position above the fire-bridge be retained, as seen in 15 the Drawing, so as to concentrate the heat at the passage of the flame in D, D. The section of this passage D, D, should be about one-fifth or one-sixth the surface of the grate. On opening the register B of the furnace, arranged as above, the atmospheric air is admitted, and flowing over the incandescent surface of the fuel mingles with the gaseous products of the combustion, which 20 being thus oxygenised are entirely consumed in their passage under the vaulting.

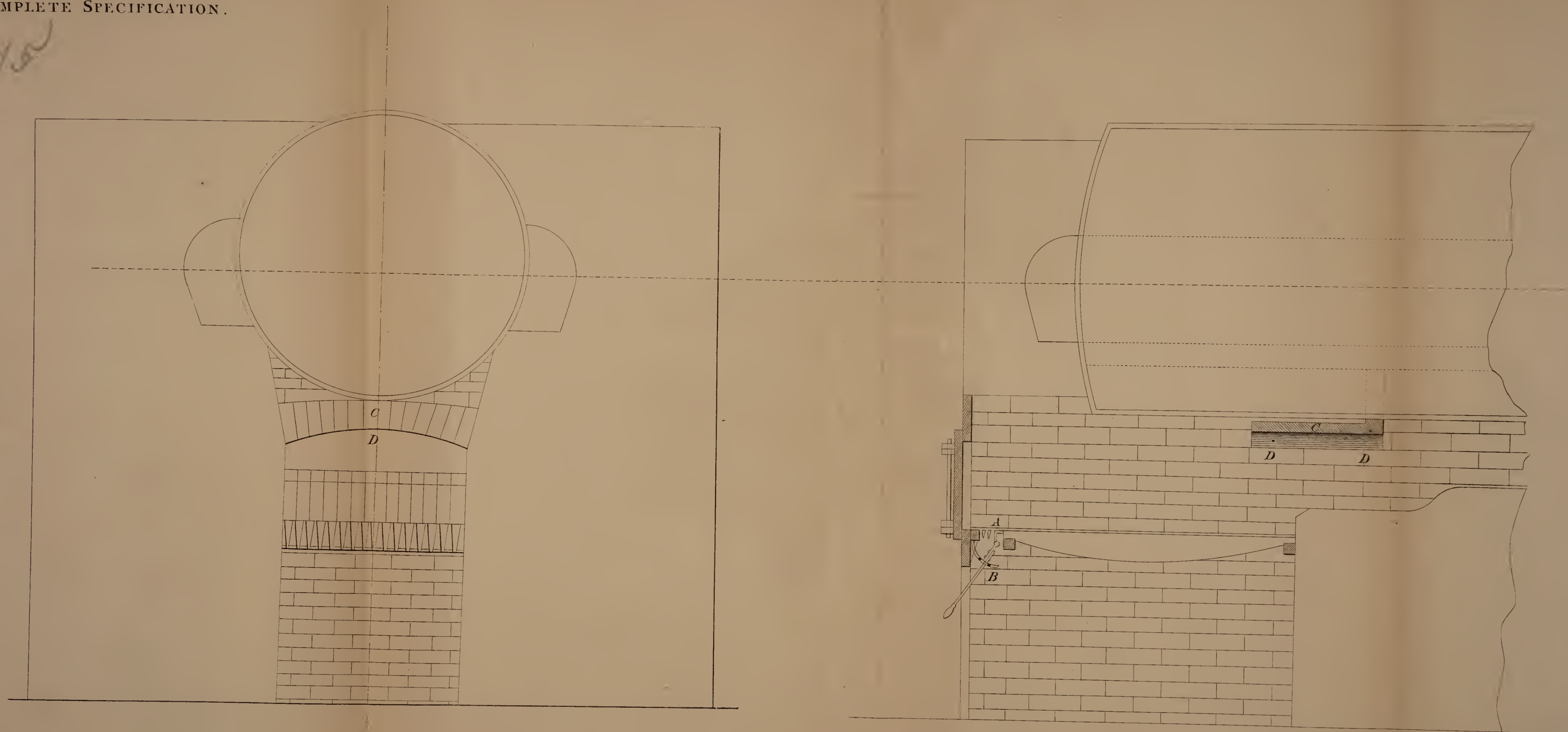
Having now described and ascertained the nature of the said Invention and the manner of carrying it into effect, I declare that I claim the improved combination of the vaulting or plate C, with the air entry A and register B 25 applied to boiler and other furnaces, the whole constructed and arranged in manner and for the purpose, substantially as herein specified and shewn in the Figures of the accompanying Drawing.

In witness whereof, I, the said Marc Antoine François Mennons, have hereto set my hand and seal, this Twenty-seventh day of August, in 30 the year of our Lord One thousand eight hundred and sixty-two.

M. F. MENNONS. (L.S.)

LONDON :

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Printers to the Queen's most Excellent Majesty. 1863.



The filed drawing is not colored.

Drawn on Stone by Malby & Sons.

